

Jan De Backer

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

914
citations

471371

17
h-index

477173

29
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44
all docs

44
docs citations

44
times ranked

1322
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Functional imaging improves patient selection for mandibular advancement device treatment outcome in sleep-disordered breathing: a prospective study. <i>Journal of Clinical Sleep Medicine</i> , 2022, 18, 739-750. | 1.4 | 9 |
| 2 | Lung deposition of inhaled once-daily long-acting muscarinic antagonists <i>via</i> standard jet nebulizer or dry powder inhaler, measured using functional respiratory imaging, in patients with chronic obstructive pulmonary disease. <i>Therapeutic Advances in Respiratory Disease</i> , 2022, 16, 175346662210775. | 1.0 | 2 |
| 3 | Expiratory CT scanning in COVID-19 patients: can we add useful data?. <i>Jornal Brasileiro De Pneumologia</i> , 2022, 48, e20210204. | 0.4 | 1 |
| 4 | Functional respiratory imaging identifies redistribution of pulmonary blood flow in patients with COVID-19. <i>Thorax</i> , 2021, 76, 182-184. | 2.7 | 32 |
| 5 | The short-term effects of ORKAMBI (lumacaftor/ivacaftor) on regional and distal lung structures using functional respiratory imaging. <i>Therapeutic Advances in Respiratory Disease</i> , 2021, 15, 175346662110467. | 1.0 | 4 |
| 6 | Altered pulmonary blood volume distribution as a biomarker for predicting outcomes in COVID-19 disease. <i>European Respiratory Journal</i> , 2021, 58, 2004133. | 3.1 | 25 |
| 7 | Exploring PI3KÎ Molecular Pathways in Stable COPD and Following an Acute Exacerbation, Two Randomized Controlled Trials. <i>International Journal of COPD</i> , 2021, Volume 16, 1621-1636. | 0.9 | 13 |
| 8 | An Inhaled PI3KÎ Inhibitor Improves Recovery in Acutely Exacerbating COPD Patients: A Randomized Trial. <i>International Journal of COPD</i> , 2021, Volume 16, 1607-1619. | 0.9 | 12 |
| 9 | Functional respiratory imaging assessment of budesonide/glycopyrrolate/formoterol fumarate and glycopyrrolate/formoterol fumarate metered dose inhalers in patients with COPD: the value of inhaled corticosteroids. <i>Respiratory Research</i> , 2021, 22, 191. | 1.4 | 6 |
| 10 | Functional respiratory imaging in relation to classical outcome measures in cystic fibrosis: a cross-sectional study. <i>BMC Pulmonary Medicine</i> , 2021, 21, 256. | 0.8 | 2 |
| 11 | Interstitial lung disease in systemic sclerosis quantification of disease classification and progression with high-resolution computed tomography: An observational study. <i>Journal of Scleroderma and Related Disorders</i> , 2021, 6, 154-164. | 1.0 | 8 |
| 12 | Association of abnormal pulmonary vasculature on CT scan for COVID-19 infection with decreased diffusion capacity in follow up: A retrospective cohort study. <i>PLoS ONE</i> , 2021, 16, e0257892. | 1.1 | 8 |
| 13 | <p>Airway Deposition of Extrafine Inhaled Triple Therapy in Patients with COPD: A Model Approach Based on Functional Respiratory Imaging Computer Simulations</p>. <i>International Journal of COPD</i> , 2020, Volume 15, 2433-2440. | 0.9 | 17 |
| 14 | Functional respiratory imaging assessment of glycopyrrolate and formoterol fumarate metered dose inhalers formulated using co-suspension delivery technology in patients with COPD. <i>Therapeutic Advances in Respiratory Disease</i> , 2020, 14, 175346662091699. | 1.0 | 5 |
| 15 | Assessment of Small Pulmonary Blood Vessels in COVID-19 Patients Using HRCT. <i>Academic Radiology</i> , 2020, 27, 1449-1455. | 1.3 | 52 |
| 16 | Idiopathic pulmonary fibrosis: airway volume measurement identifies progressive disease on computed tomography scans. <i>ERJ Open Research</i> , 2020, 6, 00290-2019. | 1.1 | 8 |
| 17 | Functional respiratory imaging of the airways in the acute respiratory distress syndrome. <i>Anaesthesia, Critical Care & Pain Medicine</i> , 2020, 39, 207-213. | 0.6 | 2 |
| 18 | Computed Tomographic Biomarkers in Idiopathic Pulmonary Fibrosis. The Future of Quantitative Analysis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 12-21. | 2.5 | 102 |

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|----|---|-----|-----------|
| 19 | Machine Learning Algorithms Utilizing Functional Respiratory Imaging May Predict COPD Exacerbations. <i>Academic Radiology</i> , 2019, 26, 1191-1199. | 1.3 | 20 |
| 20 | Machine Learning Algorithms Utilizing Quantitative CT Features May Predict Eventual Onset of Bronchiolitis Obliterans Syndrome After Lung Transplantation. <i>Academic Radiology</i> , 2018, 25, 1201-1212. | 1.3 | 24 |
| 21 | Use of functional respiratory imaging to characterize the effect of inhalation profile and particle size on lung deposition of inhaled corticosteroid/long-acting β_2 -agonists delivered via a pressurized metered-dose inhaler. <i>Therapeutic Advances in Respiratory Disease</i> , 2018, 12, 175346661876094. | 1.0 | 16 |
| 22 | The Role of Functional Respiratory Imaging in Treatment Selection of Children With Obstructive Sleep Apnea and Down Syndrome. <i>Journal of Clinical Sleep Medicine</i> , 2018, 14, 651-659. | 1.4 | 12 |
| 23 | A randomized study using functional respiratory imaging to characterize bronchodilator effects of glycopyrrolate/formoterol fumarate delivered by a metered dose inhaler using co-suspension delivery technology in patients with COPD. <i>International Journal of COPD</i> , 2018, Volume 13, 2673-2684. | 0.9 | 21 |
| 24 | Changes in ventilation–perfusion during and after an COPD exacerbation: an assessment using fluid dynamic modeling. <i>International Journal of COPD</i> , 2018, Volume 13, 833-842. | 0.9 | 8 |
| 25 | Functional respiratory imaging: heterogeneity of acute exacerbations of COPD. <i>International Journal of COPD</i> , 2018, Volume 13, 1783-1792. | 0.9 | 8 |
| 26 | Predicting the effect of treatment in paediatric OSA by clinical examination and functional respiratory imaging. <i>Pediatric Pulmonology</i> , 2017, 52, 799-805. | 1.0 | 10 |
| 27 | Image–based computational fluid dynamics in the lung: virtual reality or new clinical practice?. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2017, 9, e1392. | 6.6 | 21 |
| 28 | The role of ethnicity in the upper airway in a Belgian paediatric population with obstructive sleep apnoea. <i>European Respiratory Journal</i> , 2017, 50, 1701278. | 3.1 | 2 |
| 29 | Pathophysiological mechanism of long-term noninvasive ventilation in stable hypercapnic patients with COPD using functional respiratory imaging. <i>International Journal of COPD</i> , 2017, Volume 12, 2197-2205. | 0.9 | 18 |
| 30 | Pulmonary vascular effects of pulsed inhaled nitric oxide in COPD patients with pulmonary hypertension. <i>International Journal of COPD</i> , 2016, Volume 11, 1533-1541. | 0.9 | 34 |
| 31 | Functional respiratory imaging to assess the interaction between systemic roflumilast and inhaled ICS/LABA/LAMA. <i>International Journal of COPD</i> , 2016, 11, 263. | 0.9 | 16 |
| 32 | Efficacy of inhaled medications in asthma and COPD related to disease severity. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 1719-1727. | 2.4 | 6 |
| 33 | Comparison of CT-based Lobar Ventilation with 3 He MR Imaging Ventilation Measurements. <i>Radiology</i> , 2016, 278, 585-592. | 3.6 | 32 |
| 34 | Functional respiratory imaging (FRI) for optimizing therapy development and patient care. <i>Expert Review of Respiratory Medicine</i> , 2016, 10, 193-206. | 1.0 | 24 |
| 35 | Estimation of post-operative forced expiratory volume by functional respiratory imaging. <i>European Respiratory Journal</i> , 2015, 45, 544-546. | 3.1 | 4 |
| 36 | The Effects of Extrafine Beclometasone/Formoterol (BDP/F) on Lung Function, Dyspnea, Hyperinflation, and Airway Geometry in COPD Patients: Novel Insight Using Functional Respiratory Imaging. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2015, 28, 88-99. | 0.7 | 46 |

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|----|---|-----|-----------|
| 37 | The effect of roflumilast in addition to LABA/LAMA/ICS treatment in COPD patients. <i>European Respiratory Journal</i> , 2014, 44, 527-529. | 3.1 | 38 |
| 38 | Novel Functional Imaging of Changes in Small Airways of Patients Treated with Extrafine Beclomethasone/Formoterol. <i>Respiration</i> , 2013, 86, 393-401. | 1.2 | 47 |
| 39 | Effect of high-dose N-acetylcysteine on airway geometry, inflammation, and oxidative stress in COPD patients. <i>International Journal of COPD</i> , 2013, 8, 569. | 0.9 | 32 |
| 40 | The acute effect of budesonide/formoterol in COPD: a multi-slice computed tomography and lung function study. <i>European Respiratory Journal</i> , 2012, 40, 298-305. | 3.1 | 51 |
| 41 | Particle Deposition in Airways of Chronic Respiratory Patients Exposed to an Urban Aerosol. <i>Environmental Science & Technology</i> , 2012, 46, 12162-12169. | 4.6 | 11 |
| 42 | A case series on lung deposition analysis of inhaled medication using functional imaging based computational fluid dynamics in asthmatic patients: effect of upper airway morphology and comparison with <i>in vivo</i> data. <i>Inhalation Toxicology</i> , 2012, 24, 81-88. | 0.8 | 54 |
| 43 | Anatomical and functional changes in the upper airways of sleep apnea patients due to mandibular repositioning: A large scale study. <i>Journal of Biomechanics</i> , 2011, 44, 442-449. | 0.9 | 42 |